

### Features

- \* LOW CURRENT REQUIREMENTS
- \* HIGH LIGHT OUTPUT
- \* RELIABLE AND RUGGED
- \* IC COMPATIBLE

### Absolute Maximum Ratings at $T_A=25^\circ\text{C}$

REVERSE VOLTAGE ( $<100 \mu\text{A}$ ).....	4.0V
D.C. FORWARD CURRENT.....	30mA
PULSE CURRENT (1/10 DUTY CYCLE, 0.1 ms PULSE WIDTH).....	100 mA
OPERATING TEMPERATURE RANGE.....	-25°C TO +85°C
STORAGE TEMPERATURE RANGE.....	-25°C TO +100°C
LEAD SOLDERING TEMP. (1.6mm FROM BODY).....	260°C FOR 5 SEC.

### Electrical/Optical Characteristics at $T_A=25^\circ\text{C}$

PART NUMBER	LED CHIP		LENS COLOR	WAVELENGTH TYP. $I_f @ 20\text{mA}$ (nm)		FORWARD VOLTAGE @20mA(V)		LUMINOUS INTENSITY @20mA(mcd)		VIEW ANGLE $2\theta_{1/2}$ (deg)
	MATERIAL	EMITTING COLOR		$\lambda_p$	$\lambda_d$	TYP.	MAX.	MIN.	TYP.	
LT1831-81-SB91	AlGaInP	YELLOW	Y.D.	$590 \pm 5$	$585 \pm 5$	2.1	2.4	70	120	25

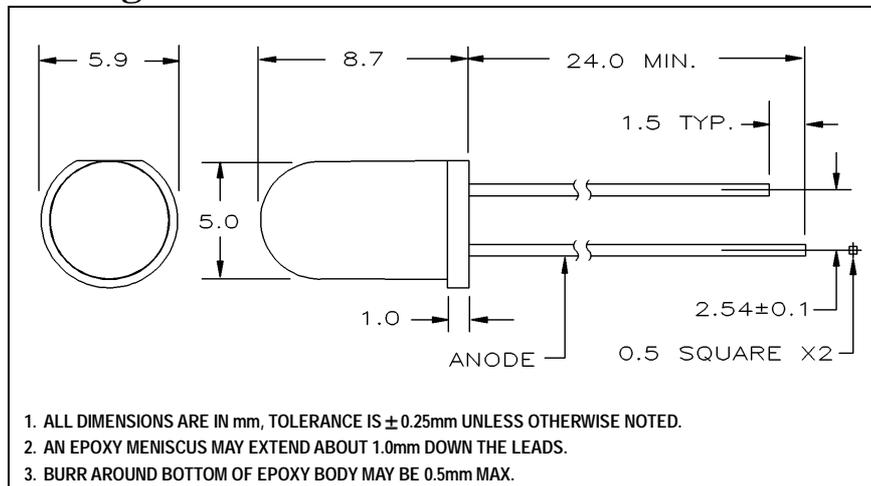
(1) LENS COLOR

Y.D....YELLOW DIFFUSED

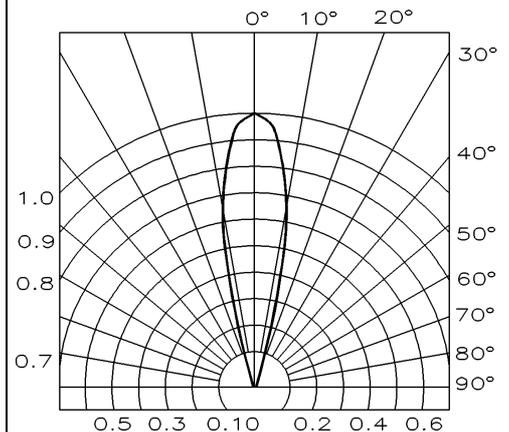
(2) SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

(3) ALL ABOVE COMPONENTS ARE CONSIDERED . DEVIATIONS FROM STATED SPECIFICATIONS WILL REQUIRE A NEW PART NUMBER BE ASSIGNED .

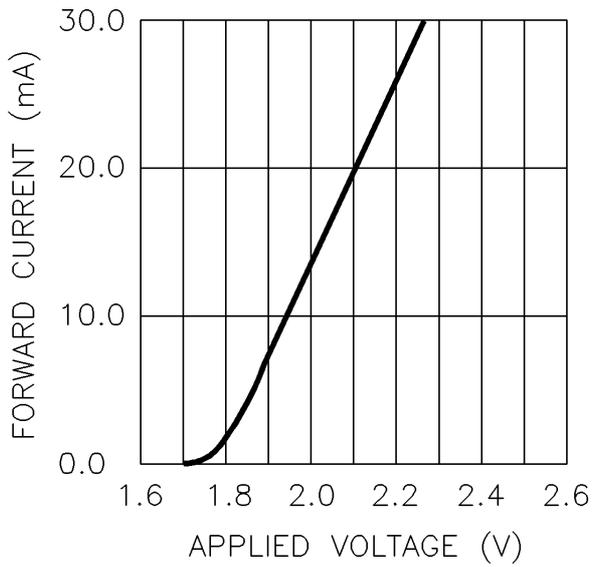
### Package Dimensions



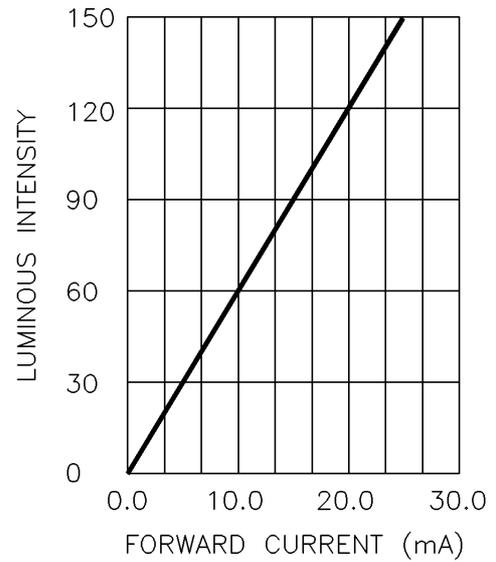
### Radiation Pattern



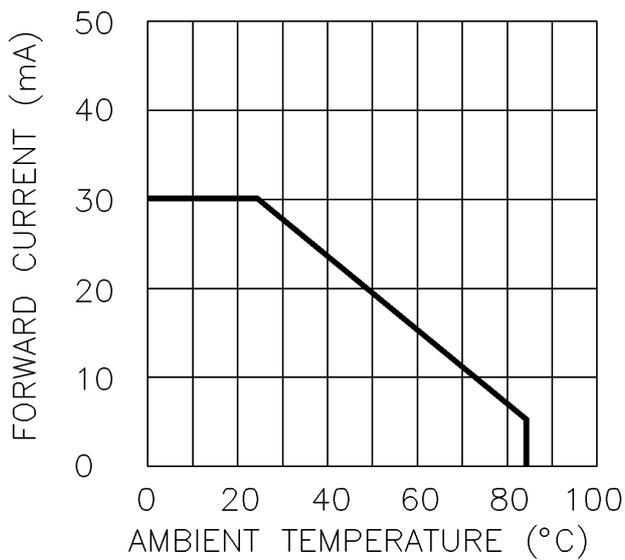
**Forward Current vs. Applied Voltage**



**Luminous Intensity vs. Forward Current**



**Forward Current vs. Ambient Temperature**



**Relative Intensity vs. Wavelength**

